

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/557,992A  
Source: IFW20  
Date Processed by STIC: 09/06/2006

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 09/06/2006

PATENT APPLICATION: US/10/557,992A

TIME: 14:23:26

Input Set : A:\2005\_1843A 8.31.2006 rev seq listing.txt

Output Set: N:\CRF4\09062006\J557992A.raw

3 <110> APPLICANT: Japan Science and Technology Corporation  
 4 UMEZAWA, Yoshio  
 6 <120> TITLE OF INVENTION: Probe for visualizing protein interaction and method of  
 analyzing  
 7 protein-protein interaction using the same  
 9 <130> FILE REFERENCE: 2005\_1843A/JFW/00653  
 C--> 11 <140> **CURRENT APPLICATION NUMBER: US/10/557,992A**  
 12 <141> CURRENT FILING DATE: 2005-11-22  
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP 2004/007245  
 15 <151> PRIOR FILING DATE: 2004-05-20  
 17 <150> PRIOR APPLICATION NUMBER: JP 2003-145466  
 18 <151> PRIOR FILING DATE: 2003-05-22  
 20 <160> NUMBER OF SEQ ID NOS: 7  
 22 <170> SOFTWARE: PatentIn version 3.3  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 300  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Renilla reniformis  
 29 <400> SEQUENCE: 1  
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 32 1 5 10 15  
 35 Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser  
 36 20 25 30  
 39 Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile  
 40 35 40 45  
 43 Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val  
 44 50 55 60  
 47 Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly  
 48 65 70 75 80  
 51 Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp  
 52 85 90 95  
 55 His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys  
 56 100 105 110  
 59 Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His  
 60 115 120 125  
 63 Tyr Cys Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu  
 64 130 135 140  
 67 Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu  
 68 145 150 155 160  
 71 Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu  
 72 165 170 175  
 75 Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg  
 76 180 185 190  
 79 Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu

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80          195          200          205
83 Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro
84          210          215          220
87 Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr
88 225          230          235          240
91 Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu
92          245          250          255
95 Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys
96          260          265          270
99 Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln
100          275          280          285
103 Glu Asp Ala Pro Asp Glu Met Gly Asn Tyr Ile Gln
104          290          295          300
107 <210> SEQ ID NO: 2
108 <211> LENGTH: 13
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial
112 <220> FEATURE:
113 <223> OTHER INFORMATION: synthesized oligiopeptide
115 <400> SEQUENCE: 2
117 Thr Glu Glu Ala Tyr Met Lys Met Asp Leu Gly Pro Gly
118 1          5          10
121 <210> SEQ ID NO: 3
122 <211> LENGTH: 300
123 <212> TYPE: PRT
124 <213> ORGANISM: Renilla reniformis
126 <400> SEQUENCE: 3
128 Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr
129 1          5          10          15
132 Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser
133          20          25          30
136 Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile
137          35          40          45
140 Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val
141          50          55          60
144 Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly
145 65          70          75          80
148 Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp
149          85          90          95
152 His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys
153          100          105          110
156 Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Ala Leu Ala Phe His
157          115          120          125
160 Tyr Cys Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu
161          130          135          140
164 Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu
165 145          150          155          160
168 Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu
169          165          170          175

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172 Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg
173             180             185             190
176 Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu
177             195             200             205
180 Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro
181             210             215             220
184 Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr
185 225             230             235             240
188 Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu
189             245             250             255
192 Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys
193             260             265             270
196 Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln
197             275             280             285
200 Glu Asp Ala Pro Asp Glu Met Gly Asn Tyr Ile Gln
201             290             295             300
204 <210> SEQ ID NO: 4
205 <211> LENGTH: 18
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <223> OTHER INFORMATION: synthesized oligopeptide
212 <400> SEQUENCE: 4
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215 1             5             10             15
218 Leu Glu
222 <210> SEQ ID NO: 5
223 <211> LENGTH: 17
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial
227 <220> FEATURE:
228 <223> OTHER INFORMATION: synthesized oligopeptide
230 <400> SEQUENCE: 5
232 Pro Arg Gly Asn Asn Gly Gly Asn Asn Asp Val Met Ala Ile Ala Ala
233 1             5             10             15
236 Asn
240 <210> SEQ ID NO: 6
241 <211> LENGTH: 133
242 <212> TYPE: PRT
243 <213> ORGANISM: artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: synthesized oligopeptide
248 <400> SEQUENCE: 6
250 Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr
251 1             5             10             15
254 Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser
255             20             25             30
258 Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile
259             35             40             45

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262 Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val
263      50                      55                      60
266 Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly
267 65                      70                      75                      80
270 Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Cys Leu Ser Leu Ala
271                      85                      90                      95
274 Ser Asn Asn Gly Asn Gly Arg Asn Gly Ala Ser Leu Glu Thr Glu Glu
275                      100                      105                      110
278 Tyr Met Lys Met Asp Leu Gly Pro Gly Thr Arg Glu Gln Lys Leu Ile
279                      115                      120                      125
282 Ser Glu Glu Asp Leu
283      130
286 <210> SEQ ID NO: 7
287 <211> LENGTH: 352
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial
291 <220> FEATURE:
292 <223> OTHER INFORMATION: synthesized oligopeptide
294 <400> SEQUENCE: 7
296 Met Asp Ala Glu Trp Tyr Trp Gly Asp Ile Ser Arg Glu Glu Val Asn
297 1                      5                      10                      15
300 Glu Lys Leu Arg Asp Thr Ala Asp Gly Thr Phe Leu Val Arg Asp Ala
301                      20                      25                      30
304 Ser Thr Lys Met His Gly Asp Tyr Thr Leu Thr Leu Arg Lys Gly Gly
305                      35                      40                      45
308 Asn Asn Lys Leu Ile Lys Ile Phe His Arg Asp Gly Lys Tyr Gly Phe
309                      50                      55                      60
312 Ser Asp Pro Leu Thr Phe Asn Ser Val Val Glu Leu Ile Asn His Tyr
313 65                      70                      75                      80
316 Arg Asn Glu Ser Leu Ala Gln Tyr Asn Pro Lys Leu Asp Val Lys Leu
317                      85                      90                      95
320 Leu Tyr Pro Val Ser Lys Tyr Gln Gln Pro Arg Gly Asn Asn Gly Gly
321                      100                      105                      110
324 Asn Asn Asp Val Met Ala Ile Ala Ala Asn Tyr Arg Leu Leu Asp His
325                      115                      120                      125
328 Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys Lys
329      130                      135                      140
332 Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His Tyr
333 145                      150                      155                      160
336 Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu Ser
337                      165                      170                      175
340 Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu Glu
341                      180                      185                      190
344 Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu Glu
345                      195                      200                      205
348 Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg Lys
349      210                      215                      220
352 Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu Lys
353 225                      230                      235                      240

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```

356 Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro Leu
357                245                250                255
360 Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr Asn
361                260                265                270
364 Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu Ser
365                275                280                285
368 Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys Phe
369                290                295                300
372 Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln Glu
373 305                310                315                320
376 Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser Phe Val Glu Arg
377                325                330                335
380 Val Leu Lys Asn Glu Gln Pro Arg Asp Tyr Lys Asp Asp Val Val Lys
381                340                345                350

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 09/06/2006  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,4,5,6,7

**VERIFICATION SUMMARY**

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Input Set : A:\2005\_1843A 8.31.2006 rev seq listing.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number